

AMENDMENTS TO THE CLAIMS

The following listing of Claims will replace all prior versions and listings of Claims in the application.

LISTING OF CLAIMS

1. (Previously Presented) A wireless communication system comprising:

a leaky transmission path arranged in an indoor space to function as an antenna; and

a wireless base station unit making wireless communication with a wireless terminal unit through the leaky transmission path, in an orthogonal frequency division multiplex scheme;

wherein the leaky transmission path is arranged such that when a plurality of incoming waves from a plurality of slots of the leaky transmission path are received by the wireless terminal unit, a time difference of the plurality of incoming waves occupying a main power, of the plurality of incoming waves, is in a guard section of the orthogonal frequency division multiplex scheme.

2. (Cancelled)

3. (Previously Presented) The wireless communication system according to claim 1, wherein the leaky transmission path is arranged to meander or arranged zigzag or spirally as a single transmission path in the indoor space, one end of the leaky transmission path is connected to the wireless base station unit, and the other end thereof is connected to a terminal load.

4. (Previously Presented) A wireless communication system comprising:
an antenna array cable arranged in an indoor space to function as an
antenna; and
a wireless base station unit making wireless communication with a
wireless terminal unit through the antenna array cable, in an orthogonal frequency
division multiplex scheme,

wherein the antenna array cable is arranged such that when a plurality of
incoming waves from a plurality of antenna units of the antenna array cable are
received by the wireless terminal unit, a time difference of the plurality of incoming
waves occupying a main power, of the plurality of incoming waves, is in a guard section
of the orthogonal frequency division multiplex scheme.

5. (Original) The wireless communication system according to claim 4,
wherein the antenna array cable comprises a single high frequency transmission path, a
plurality of high frequency couplers and antennas provided in a middle of the high
frequency transmission path, the antenna array cable is arranged to meander or
arranged zigzag or spirally in the indoor space, and one end of the antenna array cable
is connected to the wireless base station unit.

6. (Previously Presented) The wireless communication system according to
claim 4, wherein the antenna array cable is composed of a plurality of transmission
paths arranged in parallel to be spaced from each other with a predetermined interval in

the indoor space, one end of each of the plurality of transmission paths is connected to a power distributor-synthesizer, and the power distributor-synthesizer is connected to the wireless base station unit.

7. (Cancelled)

8. (Previously Presented) The wireless communication system according to claim 4, wherein the antenna array cable is arranged to cross front and rear parts of a plurality of showcases arranged in a room.

9. (Previously Presented) A wireless communication system that uses a leaky transmission path comprising:

a wireless terminal unit; and

a wireless base station unit that makes wireless communication with the wireless terminal unit in an orthogonal frequency division multiplex scheme, the leaky transmission path being connected to the wireless base station unit as an antenna, and being arranged such that when a plurality of incoming waves from a plurality of slots are received by the wireless terminal unit, a time difference of the plurality of incoming waves occupying a main power, of the plurality of incoming waves, is in a guard section of the orthogonal frequency division multiplex scheme.

10. (Previously Presented) The system according to claim 9 wherein the leaky transmission path is arranged to at least one of meander, zigzag, and spiral as a

single transmission path in an indoor space, one end of the leaky transmission path being connected to the wireless base station unit, and the other end thereof being connected to a terminal load.

11. (Previously Presented) The system according to claim 9 wherein the leaky transmission path is composed of a plurality of transmission paths arranged in parallel to be spaced apart from each other by a predetermined interval in the indoor space, one end of each of the plurality of transmission paths being connected to a power distributor-synthesizer, and the power distributor-synthesizer being connected to the wireless base station unit.

12. (Previously Presented) The system according to claim 9 wherein the leaky transmission path is arranged to cross front and rear parts of a plurality of showcases arranged in a room.

13. (Previously Presented) The wireless communication system according to claim 1 wherein the leaky transmission path is composed of a plurality of transmission paths arranged in parallel to be spaced apart from each other by a predetermined interval in the indoor space, one end of each of the plurality of transmission paths being connected to a power distributor-synthesizer, and the power distributor-synthesizer being connected to the wireless base station unit.

14. (Previously Presented) The wireless communication system according to claim 1 wherein the leaky transmission path is arranged to cross front and rear parts of a plurality of showcases arranged in a room.

15.-17. (Cancelled)